

WHAT IS CLAIMED IS:

1. A data receiving apparatus comprising:
reception means for receiving a data train
including first data and second data for printing, said
5 data train further including identification data for
identifying presence or absence of said second data in
said data train;

display control means for causing display means
to display an image relating to said first data in the
10 data train received by said reception means;

print control means for causing print means to
print an image relating to said second data in the data
train received by said reception means; and

control means for causing said display means to
15 display the image relating to said first data and
executing an informing operation to an operator of
information relating to said second data according to
said identification data in said received data train.

20 2. An apparatus according to claim 1, further
comprising:

instruction means for instructing the printing
of said second data by said print means; and

wherein said control means controls said print
25 control means so as to output said second data to said
print means in response to the print instruction for
said second data by said instruction means in the

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course of said informing operation.

3. An apparatus according to claim 2,
wherein:

5 said instruction means further instructs output
of said second data to accumulation means; and

 said control means executes such control as to
output said second data to said accumulation means in
case of an instruction by said instruction means at a
10 predetermined timing.

4. An apparatus according to claim 1,
wherein, when said second data are identified to be
present in said data train according to said
15 identification data, said control means controls said
display control means so as to cause said display means
to display a predetermined image together with the
image relating to said first data.

20 5. An apparatus according to claim 4,
wherein:

 said data train includes attribute information
of said second data; and

 said control means controls said display
25 control means so as to cause said display means to
display said predetermined image according to said
attribute information.

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6. An apparatus according to claim 5, wherein
said control means controls said display control means
so as to cause said display means to display by
automatically switching plural said predetermined
5 images respectively relating to plural said attribute
information.

7. An apparatus according to claim 5, further
comprising:
10 instruction means for instructing switching of
plural said predetermined images respectively relating
to plural said attribute information;
wherein said control means controls said display
control means so as to switch said predetermined images
15 according to the instruction by said instruction means.

8. An apparatus according to claim 5, wherein
said attribute information includes at least one of the
information including data format of said second data,
20 size of a print output sheet, number of the print
output sheets, content of the data, whether or not the
data are storable, transmission start time of the data
and transmission end time of the data.

9. An apparatus according to claim 8, wherein
said control means controls so as to execute countdown
display to the transmission start (or end) time of said
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second data, based on the information relating to the transmission start (or end) time of said data.

10. An apparatus according to claim 1,
5 wherein, when said second data are identified to be present in said data train according to said identification data, said control means controls said display control means so as to display an image according to the state of said print means for printing
10 said second data.

11. An apparatus according to claim 1,
further comprising:
audio output control means for causing audio
15 output means to execute an audio output; and
wherein, when said second data are identified to be present in said data train according to said identification data, said control means controls said audio output control means so as to cause said audio
20 output means to output an audio signal.

12. An apparatus according to claim 11,
wherein:
said data train includes attribute information
25 of said second data; and
said control means controls said audio output control means so as to cause said audio output means to

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output said predetermined audio signal according to said attribute information.

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13. An apparatus according to claim 12,
5 wherein said attribute information includes at least one of the information including data format of said second data, size of a print output sheet, number of the print output sheets, content of the data, whether or not the data are storable, transmission start time
10 of the data and transmission end time of the data.

14. An apparatus according to claim 11,
wherein, when said second data are identified to be present in said data train according to said
15 identification data, said control means controls said audio output control means so as to output an audio signal according to the status of said print means for printing said second data.

20 15. An apparatus according to claim 1,
wherein said second data are additional information relating to said first data.

16. An apparatus according to claim 15,
25 wherein said data train further includes third data constituting additional information of said first data, and said control means controls said display control

means so as to cause said display means to display an image relating to said third data.

17. An apparatus according to claim 16,
5 wherein said data train is transmitted by digital television broadcasting, and said third data are data broadcasting data.

18. An apparatus according to claim 1,
10 wherein said data train is transmitted by digital television broadcasting, and said first data are program data including image and audio signals of a program.

19. An apparatus according to claim 18,
15 wherein said second data are print data relating to said program.

20. A data receiving method comprising:
20 a reception step of receiving a data train including first data and second data for printing, said data train further including identification data for identifying presence or absence of said second data in said data train;
25 a display control step of causing display means to display an image relating to said first data in said received data train;

a print control step of causing print means to print an image relating to said second data in said received data train; and

a control step of causing said display means to display an image relating to said first data and executing an informing operation to the operator of the information relating to said second data according to said identification data in said received data train.

21. A method according to claim 20, further comprising:

an instruction step of instructing the printing of said second data by said print means; and

wherein said control step executes control so as to output said second data to said print means in response to the print instruction for said second data by said instruction step in the course of said informing operation.

22. A method according to claim 20, wherein, when said second data are identified to be present in said data train according to said identification data, said control step executes control so as to cause said display means to display a predetermined image together with an image relating to said first data.

23. A method according to claim 22, wherein:

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said data train includes attribute information of said second data; and

said control step executes control so as to cause said display means to display said predetermined image according to said attribute information.

24. A method according to claim 23, wherein said attribute information includes at least one of the information including data format of said second data, size of a print output sheet, number of the print output sheets, content of the data, whether or not the data are storable, transmission start time of the data and transmission end time of the data.

25. A method according to claim 20, wherein, when said second data are identified to be present in said data train according to said identification data, said control step executes control so as to display an image according to the state of said print means for printing said second data.

26. A method according to claim 20, further comprising:

an audio output control means for causing audio output means to execute an audio output; and

wherein, when said second data are identified to be present in said data train according to said

identification data, said control step executes control so as to cause said audio output means to output an audio signal.

5 27. A method according to claim 26, wherein:
said data train includes attribute information of said
second data; and

 said control executes control so as to cause
said audio output means to output said predetermined
10 audio signal according to said attribute information.

 28. A method according to claim 27, wherein
said attribute information includes at least one of the
information including data format of said second data,
15 size of a print output sheet, number of the print
output sheets, content of the data, whether or not the
data are storable, transmission start time of the data
and transmission end time of the data.

20 29. A method according to claim 20, wherein,
when said second data are identified to be present in
said data train according to said identification data,
said control step executes control so as to output an
audio signal according to the status of said print
25 means for printing said second data.

 30. A method according to claim 20, wherein

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said second data are additional information relating to
said first data.

5 31. A method according to claim 30, wherein
said data train further includes third data
constituting additional information of said first data,
and said control executes control so as to cause said
display means to display an image relating to said
third data.

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32. A method according to claim 31, wherein
said data train is transmitted by digital television
broadcasting, and said third data are data broadcasting
data.

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33. A method according to claim 20, wherein
said data train is transmitted by digital television
broadcasting.

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34. A data receiving apparatus comprising:
reception means for receiving a data train
including first data containing moving image
information and second data constituting additional
information of said first data, said data train further
25 including identification data for identifying the
presence or absence of said second data in said data
train;

display control means for causing display means to display an image relating to said first data in the data train received by said reception means;

print control means for causing print means to
5 print an image relating to said second data in the data train received by said reception means;

detection means for detecting the presence or absence of the second data in said data train based on said identification data; and

10 control means for causing said display means to display an image relating to said first data and executing an informing operation to the operator of the information relating to said second data according to the result of detection by said detection means.

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35. An apparatus according to claim 34, further comprising:

instruction means for instructing the printing of said second data by said print means; and

20 wherein said control means controls said print control means so as to output said second data to said print means in response to the print instruction for said second data by said instruction means in the course of said informing operation.

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36. An apparatus according to claim 35, wherein:

said instruction means further instructs output
of said second data to accumulation means; and

said control means executes control so as to
output said second data to said accumulation means in
5 case of an instruction by said instruction means at a
predetermined timing.

37. An apparatus according to claim 34,
wherein, when said second data are identified to be
10 present in said data train according to said
identification data, said control means controls said
display control means so as to cause said display means
to display a predetermined image together with an image
relating to said first data.

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38. An apparatus according to claim 37,
wherein:

said data train includes attribute information
of said second data; and

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said control means controls said display
control means so as to cause said display means to
display said predetermined image according to said
attribute information.

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39. An apparatus according to claim 38,
wherein said attribute information includes at least
one of the information including data format of said

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said data train includes attribute information
of said second data; and

said control means controls said audio output control means so as to cause said audio output means to output said predetermined audio signal according to said attribute information.

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43. An apparatus according to claim 42, wherein said attribute information includes at least one of the information including data format of said second data, size of a print output sheet, number of the print output sheets, content of the data, whether or not the data are storable, transmission start time of the data and transmission end time of the data.

44. An apparatus according to claim 43, wherein, when said second data are identified to be present in said data train according to said identification data, said control means controls said audio output control means so as to output an audio signal according to the status of said print means for printing said second data.

45. An apparatus according to claim 34, wherein said second data include print data for said additional information, and said control means controls said print control means so as to output said print data to said print means.

46. An apparatus according to claim 45,
wherein:

said second data further include display data
for said additional information; and

5 said control means controls said display
control means so as to output said display data to said
display means.

47. An apparatus according to claim 46,
10 wherein, when said detection means detects the presence
of either of said print data and said display data,
said control means executes control so as to execute
said informing operation.

48. An apparatus according to claim 34,
15 wherein said second data include additional information
relating to said first data, print control data for
printing said additional information, and display
control data for displaying said additional
20 information.

49. An apparatus according to claim 48,
wherein, when said detection means detects presence of
either of said print control data and said display
25 control data, said control means executes control so as
to execute said informing operation.

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50. An apparatus according to claim 34,
wherein said data train is transmitted by digital
television broadcasting, and said first data are
program data containing image and audio signal of the
program.

51. An apparatus according to claim 50,
wherein said second data are additional information
relating to said program, including display data and
print data of said additional information.

52. An apparatus according to claim 50,
wherein said second data are additional information
relating to said program, further including display
control data for displaying said additional information
and print control data for printing said additional
information.

53. A data receiving method comprising:
a reception step of receiving a data train
including first data containing moving image
information and second data constituting additional
information of said first data, said data train further
including identification data for identifying the
presence or absence of said second data in said data
train;

a display control step of causing display means

to display an image relating to said first data in said received data train;

5 a print control step of causing print means to print an image relating to said second data in said received data train;

a detection step of detecting the presence or absence of the second data in said data train based on said identification data; and

10 a control step of causing said display means to display an image relating to said first data and executing an informing operation to the operator of the information relating to said second data according to the result of detection by said detection step.

15 54. A method according to claim 53, further comprising:

an instruction step of instructing the printing of said second data by said print means; and

20 wherein said control step executes control so as to output said second data to said print means in response to the print instruction for said second data in the course of said informing operation.

25 55. A method according to claim 53, wherein, when said second data are identified to be present in said data train according to said identification data, said control step executes control so as to cause said

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display means to display a predetermined image together with an image relating to said first data.

56. A method according to claim 55, wherein:
5 said data train includes attribute information of said second data; and
said control step executes control so as to cause said display means to display said predetermined image according to said attribute information.

10 57. A method according to claim 53, further comprising:

an audio output control step of causing audio output means to execute an audio output; and

15 wherein, when said second data are identified to be present in said data train according to said identification data, said control means executes control so as to cause said audio output means to output an audio signal.

20 58. A method according to claim 57, wherein:
said data train includes attribute information of said second data; and

25 said control step executes control so as to cause said audio output means to output said predetermined audio signal according to said attribute information.

59. A method according to claim 53, wherein said second data include print data for said additional information, and said control step executes control so as to output said print data to said print means.

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60. A method according to claim 59, wherein: said second data further include display data for said additional information; and

10 said control step executes control so as to output said display data to said display means.

61. A method according to claim 60, wherein, when said detection step detects the presence of either of said print data and said display data, said control
15 step executes control so as to execute said informing operation.

62. A method according to claim 53, wherein said second data include additional information
20 relating to said first data, print control data for printing said additional information, and display control data for displaying said additional information.

25 63. A method according to claim 62, wherein, when said detection means detects presence of either of said print control data and said display control data,

a print control step of causing print means to print an image relating to said second data in said

a control step of causing said display means to display an image relating to said first data and

executing an informing operation to the operator of the information relating to said second data according to said identification data in said received data train.

a reception step of receiving a data train including first data containing moving image information and second data constituting additional information of said first data, said data train further including identification data for identifying the presence or absence of said second data in said data

information of said first data, said data train further including identification data for identifying the presence or absence of said second data in said data train;

a print control step of causing print means to print an image relating to said second data in said received data train;

a detection step of detecting the presence or

absence of the second data in said data train based on
said identification data; and

a control step of causing said display means to
display an image relating to said first data and

- 5 executing an informing operation to the operator of the
information relating to said second data according to
the result of detection by said detection step.

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